

# 9<sup>th</sup> Multidisciplinary International Scheduling Conference: Theory & Applications

**Analytical Optimisation and Machine Learning in Scheduling and Routing**

**Ningbo, China, December 12-15, 2019**

MISTA 2019 is the ninth in the conference series. The conference serves as a forum for an international community of researchers, practitioners and vendors on all aspects of multi-disciplinary scheduling.

## Organisers

University of Nottingham Ningbo China

Scheduling Sub-Society, Operations Research Society of China

Intelligent Simulation Optimisation and Scheduling, China Simulation Federation

## Aims and Scopes

The aim is to bring together scheduling researchers and practitioners from all the disciplines that engage with scheduling research. The conference scope includes (but is not limited to):

Agent Based Scheduling	Algorithmics	Applications	Automated Reasoning	Batch Scheduling
Commercial Packages	Complexity Analysis	Constraint Logic Programming	Delivery Scheduling	Evolutionary Algorithms
Heuristic Search	Knowledge-Based Systems	Large Scale Scheduling	Local Search	Machine Scheduling
Meta-heuristic Search	Multi-processor Scheduling	Process Scheduling	Production Scheduling	Real World Scheduling
Real-Time Scheduling	Rostering	Rule-Based Expert Systems	Shop-Floor Scheduling	Sports Scheduling
Theoretical Scheduling	Timetabling	Transport Scheduling	Vehicle Routing	

## How to Submit

We invite you to submit completed research papers or short papers to MISTA 2019. Authors are invited to submit papers in either full papers or extended abstract. Details can be found at <http://www.schedulingconference.org/submission>.

## Registration

	<b>Non-students</b>	<b>students</b>
<b>Early bird</b> (before 26 October 2019)	<b>2000</b> RMB (or 240 British Pound)	<b>1800</b> RMB (or 220 British Pound)
<b>Standard</b> registration (after 26 October 2019)	<b>2500</b> RMB (or 300 British Pound)	<b>2000</b> RMB (or 240 British Pound)

## Plenaries, Tutorials and special sessions

	<b>Title</b>	<b>Speaker</b>
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Plenary 1	<i>Advances in Evolutionary Multitasking for Vehicle Routing</i>	<b>Kay Chen Tan</b> Hong Kong City University, IEEE Fellow, Editor in Chief of IEEE TEVC
Plenary 2	<i>Project Management: New Directions and New Results</i>	<b>Nicholas G. Hall</b> Fisher College of Business and Ohio State University Former INFORMS President
Plenary 3	<i>Data-Driven Intelligent Optimization Scheduling</i>	<b>Ling Wang</b> Tsinghua University Editor in Chief of International J of Automation and Control
Plenary 4	<i>Tackling uncertainty in combinatorial optimization problems: using metaheuristics to efficiently co-generate scenarios and solutions</i>	<b>José F. Oliveira</b> Universidade do Porto Editor in Chief of EJOR
Tutorial 1	<i>Operations Scheduling with Multitasking</i>	<b>Chung-Lun Li</b> Department of Logistics and Maritime Studies Hong Kong Polytechnic University
Tutorial 2	<i>Stabilizing the grand coalition for cooperative games: A unified framework demonstrated by scheduling games</i>	<b>Xiangtong Qi</b> Department of Industrial Engineering and Decision Analytics The Hong Kong University of Science and Technology
Tutorial 3	<i>Appointment Scheduling</i>	<b>Guohua Wan</b> Department of Management Science Shanghai Jiaotong University
Tutorial 4	<i>Scheduling problems with outbound delivery consideration</i>	<b>Weiya Zhong</b> School of Management Shanghai University
Focused sessions	<i>Airline scheduling</i>	tbc.
Focused sessions	<i>Marine port scheduling</i>	tbc.
Focused sessions	<i>Public transport scheduling</i>	tbc.
Focused sessions	<i>Analytical Optimisation and Machine Learning</i>	tbc.

### Grant proposal clinic session (国家自然科学基金申请诊断 NSFC)

A grant proposal clinic session shall be held together with conference. This session consists of 2 general talks for NSFC applications, followed with 5-6 clinic sessions. Additional 500 RMB shall be charged for the attendance of this session.

### Special Issue

All accepted submissions, whether a full paper or an abstract has the opportunity to submit a paper to a **special issue of International Journal of Production Research (IJPR)** (IF:2.623) on topic: Analytics and Machine Learning in Scheduling and Routing Optimization. Submission link is [here](#).

### Conference Chairs

- Ruibin Bai, University of Nottingham Ningbo, China
- Zhi-Long Chen, University of Maryland
- Li Jiawei, University of Nottingham Ningbo Campus
- Graham Kendall, University of Nottingham, Malaysia and UK
- Barry McCollum, Queens University Belfast, UK

## **Organising Committee**

### **Advisors:**

- Yuzhong Zhang, Qufu Normal University, China
- Guochun Tang, Shanghai Polytechnic University, China
- Hongwei Wang, Huazhong University of Science and Technology
- Ling Wang, Tsinghua University, China
- Liang Gao, Huazhong University of Science and Technology

### **Local chairs:**

- Dave Towey, University of Nottingham Ningbo China
- Huan Jin, University of Nottingham Ningbo China
- Jun-Qiang Wang: Northwestern Polytechnical University, China
- Lining Xing, National University of Defense Technology, China

### **Secretariat team:**

- Qingguo Bai, Qufu Normal University, China
- Danyu Bai, Dalian Maritime University, China

**Supporting team:** Jane Wang, Kelly Fu, Deborah Pitchfork

## **MISTA 2019: Important Dates**

- 30st September 2019: Deadline submission
- 30th Oct 2019: Decision to authors
- 10th Nov 2019: Early registration due
- 10th Nov 2019: Camera Ready Papers due
- 12th Dec - 15th Dec 2019: Conference